Estes Park CO Flood Communications

Estes Valley Amateur Radio Club



The Story

Lessons Learned

Future Planning



Thursday September 12th ~11: 15

Had been raining since Tuesday
Denver Airport diversions
Record rainfall amounts in foothills



Thursday

US 34 – gone

US 36 – gone

CO 7 – gone

Only Access to Estes Park

Trail Ridge Road – usually closed Labor Day



Thursday

Access to Estes Park

Trail Ridge Road
6 to 8 hours to Front Range
Via Berthoud Pass or Wyoming



Local Estes Park Roads Out

Glen Haven
Drake
Fish Creek
Road to YMCA of Rockies
Elkhorn into downtown



US 34 Century Link Fiber Cable severed

Highway was washed away Fiber right-of-way under road



=IMPACT=

Century Link - down
AT&T Cell - down
Verizon Cell - down
Estes Valley Net - down
Airbits and Baja - saturated
(Airbits & Baja on exposed PRPA fiber cable)



Estes Century Link CO satellites to Loveland

=Impact= No Landline service No 911 service



State-Wide Trunked Radio
System dedicated
to
PD, FD, CHP, Larimer Sheriff
(overloaded)



Minimal Civilian Comm Except for Amateur Radio

(via direct HF, NCARC or EVARC Repeaters w/ UPS, IRLP + Echolink service)



EVARC ARES team served

Estes Park Medical Center
Red Cross shelter
YMCA - evacuations
Health & Welfare msgs



Friday September 13th

Airbits provides temp service for EPMC OK for Cloud-Based Patient Record System, NOT for radiology images



Friday September 13th Century Link CO 'fixed' for local exchange service only! Still NO 911



Saturday evening September 14th

"PRPA" fiber bundle spliced into Estes Park ring*

CoLT and CoW helicoptered to Estes Park



Sunday September 15th

Return to Normalcy (well ...)

Lessons Learned?

SPECIAL PROPERTY OF THE SERVICE (REF. CLUB)

Preparation

Less than a month before Simulated Emergency ARES training

During previous year Several EVARC members joined/ trained R3D2 ARES



Preparation

Woodland Heights Fire
During Field Day 2012
Evacuatees to EPHS
EVARC supported Red Cross



Preparation

Activation Procedures
Go Bags
Go Stations
Creation of FOG



Future Planning

SPECIAL PROPERTY OF THE PROPER

Organic EVARC club changes

- Club held Technican Classes and Exams in January
- Result: 15 new HAMs
- Concern: How to keep interest with new licensees



EVARC club changes

Now a 501c(3) club Addition of 2 director positions

- Resource Director
- Training Director



Futures? If PRPA/Airbits wasn't there.

EVARC Plans: Amateur Band P2P WiFi (Front Range RMHams MAN)



Future?

*

If exposed PRPA fiber cable goes away – fire, mudslide, squirrels

Several EVARC members on planning committee with town for 'other' future cable options – Tunnel, etc.



Future?

EVARC/ARES members working with town 'agencies' to develop MOA and procedures.

SPECIAL TO SERVICE (REP

Future?

EVARC/ARES members working with Red Cross (Larimer Chapter) to set up Emergency Radio Stations
Pinewood FD **
Glenhaven FD
Drake FD



EPMC Emergency HAM station

Cooperative effort with funding from

Estes Park Sunrise Rotary
Estes Park Medical Center
Estes Valley Amateur Radio Club



EPMC Station

Outside Access to lockable room
Two Yaesu FT-8800Rs
Custom operating positions – Heil
Two Diamond X-50s
Alinco DR-135TP (TNC)
Rack mounted w/ UPS
IT support - LAN & phone access



EPMC Station

Station used for ARES training net check-in Able to cross-band FT-8800R for HT/QRP or station locations with marginal signals to/from Horsetooth (447.275) repeater

SPECIAL P SERVICE (REP CLUB

Thanks to EVARC HAMs

Dave Bowers, KBØWVH
Dave O'Farrell, WBØIXV
David White, K6OG
Larry Olson, W9INE
David Frederick, N5PPW
Art Goodall, WØKG

and supporting cast of R3D2, town county and state offices



Sent to SCM, Jack Ciaccia, WMØG

ARRL "QST" Human Interest article, Dec 2013

Estes Park News article



Situation

Communications (landline, cell and internet)
disrupted by flood event. Fiber cable to Estes Park
severed by road outages.

Primary Duties

Provide communications to/from Loveland EOC and Larimer County EOC for supported agencies (emergency services, Red Cross shelter and Estes Park Medical Center). Also provide, as needed, 2-way health and welfare message traffic.

Tactical call signs used with Larimer EOC Estes Park EOC, Estes Park Fire and Pole Hill



Flood Event Summary Operational Traffic Handled

- 1. Notified Estes Fire that Loveland Fire would be spending two nights, need to bunk 12.
- 2. Red Cross Shelter checks twice a day [headcount, beds available, shelter manager, issues] communicating info to EOC/Red Cross Chapter, Fort Collins. Other support included info about incoming evacutees.
- 3. Estes Park Medical Center checked twice a day: status and needs.

- 4. Regular attendance at Town EOC coordination meetings information updates and status
- 5. YMCA Evacuation multiple comms to evacuate: 1) Grayland Elementary, Parker, 2) Linton Elementary, Fort Collins, 3) Pinegrove, DPS
- 6. Covenant Heights evacuation 180 students.
- 7. Good Samaritan Living Center status check.



- 8. Wind River school evacuation to Red Cross Shelter.
- 9. Comms on Trail Ridge road status and evacuation route.
- 10. Allenspark medical evacuation see "QST" 12/2013
- 11. Comms regarding Red Cross cots stored at Power Plant.
- 12. Comms regarding status of COW and COLT (remote cell) units
- 13. Comms regarding overflow shelter at Conference Shelter



- 14. Comms regarding B&B Sinclair Fuel delivery and dispatching tanker from Commerce City coordinating with EOC/CDOT
- 15. Critical Request from State EOC/FEMA to Estes Park Sanitation District
- 16. Comms regarding Century Link fiber test for Town EOC
- 17. Comms regarding Lincare Oxygen supplies.



- 18. Comms on Little Valley, Fish Creek, Jacob Gulch road problems, evacuation plans and needs.
- 19. Setup overflow shelter (with Salvation Army/EP Town) with use of Airbits internet and phones.
- 20. Note: Some Airbits users were connected throughout the event and used Skype for Health & Welfare message deliveries.



HEALTH AND WELFARE COMMS (number received; not all delivered - no contact; especially to Drake, Glen Haven, and Pinewood Springs locations)

Thursday - 5

Friday - 15

Saturday - 20

Sunday - 2

Summary - Pole Hill from Estes Park Fire

24 processed - 15 delivered, 9 were unable to be delivered

